

Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

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TO EGON LOEBNER, SCIENTIFIC ATTACHE FROM JACK VANDERRYIN

E.O. 11652: N/A

TAGS: TECH

SUBJECT:TOUR OF TIDAL POWER PLANT, GISLAYA GUBA, BY STONE
AND WEBSTER ERDA REPRESENTATIVES

REF: MOSCOW 13694

1. ERDA DESIRES TAKE UP SOVIET OFFER MENTIONED REFTTEL.
MR. W.K. VERPLANCK OF STONE AND WEBSTER AND R.P. MCGEE OF
ERDA HQ WANT TO DISCUSS GISLAYA GUBA EXPERIMENTAL TIDAL
POWER PLANT AT GIDROPROYEKT INSTITUTE (ASSUMED LOCATION IS
MOSCOW) FOR 3 DAYS SOMETIME DURING LAST TWO WEEKS IN
OCTOBER IF POSSIBLE. PLEASE ARRANGE MEETING AND ADVISE.

2. SPECIFIC TOPICS DESIRED FOR DISCUSSION ARE:

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----A. MECHANICAL, ELECTRICAL AND CIVIL ENGINEERING DESIGN

-----CHARACTERISTICS OF TIDAL HYDROELECTRIC GENERATING
-----PLANTS, SUCH AS GISLAYA GUBA PROJECT.

---B. CONSTRUCTION METHODS USED TO BUILD GISLAYA GUBA
-----PROJECT.

---C. CAPITAL COST OF TIDAL PLANTS IN TERMS OF DOLLARS OR
-----RUBLES PER KW INSTALLED CAPACITY.

---D. MAINTENANCE AND OPERATING COST PER KW-HR
-----FOR TIDAL GENERATED POWER.

---E. EXPERIENCE AT GISLAYA GUBA RELATIVE TO SALT-WATER
-----CORROSION, ICING, BASIN SILTATION, CONCRETE DE-
-----TERIORATION, EQUIPMENT OPERATION AND STRUCTURAL
-----MOVEMENT.

---F. EXPERIENCE WITH PRECAST, FLOATED-IN-PLACE POWER
-----HOUSE UNITS AND FILLING GATE STRUCTURES. WOULD
-----YOU PLAN TO USE THESE TYPE OF UNITS IN FUTURE?

---G. LOCATION OF BEST TIDAL SITES IN U.S.S.R.
-----AND MEAN TIDE RANGE AND POTENTIAL ANNUAL ENERGY
-----OUTPUT AT EACH SITE.

---H. THE U.S.S.R. FUTURE PLANS TO CONSTRUCT TIDAL
-----HYDROELECTRIC PLANTS

-----I. WHERE?

-----II. WHEN?

-----III. SIZE?

---I. TYPE OF FILLING AND EMPTYING GATES AND HOIST BEST
-----SUITED FOR TIDAL PROJECTS

---J. SMALL TIDAL PLANTS IN RANGE OF 500 TO 2000 KW FOR
-----LOCAL VILLAGE USE

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---K. PREFERENCES BETWEEN THE ONE AND TWO POOL SCHEMES
-----USING REVERSIBLE TURBINE UNITS.

---L. AVAILABLE PUBLICATIONS BY SOVIET AUTHORS ON
-----TIDAL HYDROELECTRIC PROJECTS. ROBINSON

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